

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-725
Relating to Certification of New Motor Vehicles

GENERAL MOTORS CORPORATION

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That 1996 model-year General Motors Corporation exhaust emission control systems are certified as described below for medium-duty vehicles:

Fuel Type: Gasoline

Engine Family: TGM5.0JPG1EK Displacement: 5.0 Liters (305 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

Exhaust Gas Recirculation
Three Way Catalytic Converter
Dual Heated Oxygen Sensors
Heated Oxygen Sensors (Two)
Sequential Multiport Fuel Injection

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The certification exhaust emission standards for this engine family in grams per mile are:

| <u>Test Weight</u> <u>(lbs.)</u> | <u>Miles</u> | <u>Non-Methane</u> <u>Hydrocarbons</u> | <u>Carbon</u> <u>Monoxide</u> | <u>Nitrogen</u> <u>Oxides</u> | <u>Carbon</u> <u>Monoxide (20°F)</u> |
|-------------------------------------|--------------|---|----------------------------------|----------------------------------|---|
| 5751-8500 | 50,000 | 0.39 | 5.0 | 1.1 | 12.5 |
| | 120,000 | 0.56 | 7.3 | 1.53 | n/a |

The certification exhaust emission values for this engine family in grams per mile are:

| <u>Test Weight</u> <u>(lbs.)</u> | <u>Miles</u> | <u>Non-Methane</u> <u>Hydrocarbons</u> | <u>Carbon</u> <u>Monoxide</u> | <u>Nitrogen</u> <u>Oxides</u> | <u>Carbon</u> <u>Monoxide (20°F)</u> |
|-------------------------------------|--------------|---|----------------------------------|----------------------------------|---|
| 5751-8500 | 50,000 | 0.25 | 1.9 | 0.3 | 4.4 |
| | 120,000 | 0.35 | 2.3 | 0.36 | n/a |

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the 50,000-mile evaporative emission standards applicable to 1980 through 1994 model-year vehicles in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles", and the listed vehicle models comply with those standards.

BE IT FURTHER RESOLVED: That, based on the evaporative emission phase-in compliance schedule submitted by the vehicle manufacturer, the listed vehicle models shall not be subject to the running loss and useful life standards set forth in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles."

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" for the aforementioned model year (Title 13, California Code of Regulations, Section 2235).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high-altitude requirements and highway emission standards, and with the California Inspection and Maintenance emission standards in place at the time of certification, as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Emission Control Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

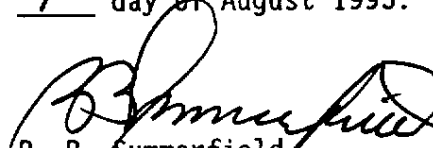
BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines" (Title 13, California Code of Regulations, Section 1968.1) for the aforementioned model year.

BE IT FURTHER RESOLVED: That for the listed vehicles, the manufacturer has submitted and the Executive Officer hereby approves the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California this 9th day of August 1995.


R. B. Summerfield
Assistant Division Chief
Mobile Source Division

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
LIGHT DUTY TRUCKS AND MEDIUM DUTY VEHICLES

Example, Pattern A: CC10703+E62

Example, Pattern B: 1UM05

Digit 1 = Marketing Division

Pattern A

C = Chevrolet
T = GMC
H = Oldsmobile
G = Isuzu

Pattern B

1 = Chevrolet
2 = Pontiac
3 = Oldsmobile

Note: Digit 1 is not used for Pattern A models on engine family pages or California Supplemental Data Sheets.

Digit 2 = Chassis Type (all)

U = Conventional 4x2 Front Wheel Drive
C, S, M = Conventional 4x2 Rear Wheel Drive
G = Forward Control 4x2 Rear Wheel Drive
K, T, L = Conventional 4x4 Four Wheel Drive, All Wheel Drive

Digit 3 = Series/GVWR

Pattern A

1 = 11.15.1500/3500-7300
2 = 21.25.2500/6400-8600
3 = 31.35.3500/7100-14500

Pattern B

Letter code designates trim level rather than series/GVWR.

Digits 4 & 5

Pattern A = Dimensional Grouping

05 = Blazer, Jimmy, Bravada
06 = S/T Short Box
07 = C/K Short Box
08 = S/T Long Box & Cab-Chassis
09 = C/K Long Box, Suburban,
10 = M/L Long Body
14 = G Short Wheelbase
17 = G Long Wheelbase

Pattern B

05 = Cargo (APV)
06 = Passenger (Lumina APV, Trans Sport, Silhouette)

Digits 6 & 7 = Body/Cab Codes (Pattern A Only)

03 = Conventional Cab, Cab-Chassis
05 = Cargo Van
06 = Passenger Van, 4 Door Special Purpose Vehicle
16 = 2 Door Special Purpose Vehicle
43 = Crew Cab
53 = Extended Cab

Pickup Body Codes (Optional, Used with Pattern A Only)

+E62 = Stepside, Fenderside
+E63 = Fleetside, Wideside
+ZW9 = Cab-Chassis

ISSUED: ML-TP100

REVISED:

17-TGM5.0JPG1EK-1

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MFR: GENERAL MOTORS CORP. ENGINE FAMILY: TGM5.0JPG1EK EVAP. FAMILY: TGM1098AYMBA
 ALL ENGINE CODES IN ENGINE FAMILY: CA X 49S X 50S AB965
 EXH STD: CA Tier-1 X TLEV LEV ULEV ZEV ; U.S. EPA Tier-1 NA
 EVAP STD: 50K X USEFUL LIFE WITH R/L ; IN-USE EXH STD: FULL ALTERNATIVE X
 VEH CLASS(ES): PC LDT1 LDT2 MDV1 MDV2 MDV3 X MDV4 MDV5
 SINGLE CERT STD FOR MULTI-CLASS ENGINE FAMILY: NA
 FUEL TYPE(S): DEDICATED X GASOLINE X ; EMISS TEST FUEL(S): INDO PHASE 2 X
 SERVICE ACCUM: STD AMA MFR ADP X ; NMOG TEST PROC: NA EQUIV
 R/L TEST PROC: NA PT SOURCE ; HYBRID TYPE: NA APU CYCLE: NA
 ENGINE CONFIGURATION: I4 V6 V8 X DISPLACEMENT: 5.0 LITERS/ 305 CU. IN.
 VALVES/CYLINDER: 2 X 4 RATED HP: 220 @ 4600 RPM
 ENGINE LOCATION: FRONT X DRIVE: FWD RWD X 4WD-FT 4WD-PT X
 EXHAUST EMISSION CONTROL SYSTEM: LEGR, TWC, 2HO2S-HO2S(2), SFI, OBD II
 RLHP/DPA VALUES: SECTION 08.13.02.00

| ENG CODE (LOC) (C) | VEH MODELS (SEE PAGE 1) | TRANS. (M5, A4 ETC.) | EQUIV. TEST WEIGHT | IGNITION (ECM/PCM) PART NO./CALIB | EGR SYSTEM PART NO. | CATALYTIC CONVERTER PART NO. |
|-----------------------------|--|----------------------------|--------------------------|---|---------------------------|------------------------------------|
| 51, 52 | K10953+E63 C20753+E63 K20903+E63 | A4 | 6000 | 16177415/ 16187661-ENG 16187779-TRANS 16187577PB-OPER | 17096188, 17096309 | 25163811, 25163841: MS 9571 |
| 51A, 52A | | | | 16177415/ 16227413-ENG 16227573, 16227572-TRANS 16227245PF-OPER | | |
| 81, 82 | | | | 16177415/ 16232348-ENG 16227573-TRANS 16235505PH-OPER | | |
| 51B, 52B | | | | 16177415/ 16227527-ENG 16227573, 16227572-TRANS 16232915PG-OPER | | |

| CARLINE NAME | CARLINE CODE |
|------------------|--------------|
| C2500 PICKUP 2WD | 55020 |
| K1500 PICKUP 4WD | 55030 |
| K2500 PICKUP 4WD | 55035 |
| C2500 SIERRA 2WD | 80015 |
| K1500 SIERRA 4WD | 80020 |
| K2500 SIERRA 4WD | 80025 |

ISSUED: ML-TP100

 REVISED: ML-TR053, ML-TR022, ML-TR062, ML-TR073
 17-TGM5.0JPG1EK-2

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MFR: GENERAL MOTORS CORP. ENGINE FAMILY: TGM5.0JPG1EK EVAP. FAMILY: TGM1098AYMBB
 ALL ENGINE CODES IN ENGINE FAMILY: CA X 49S X 50S AB965
 EXH STD: CA Tier-1 X TLEV LEV ULEV ZEV ; U.S. EPA Tier-1 NA
 EVAP STD: 50K X USEFUL LIFE WITH R/L ; IN-USE EXH STD: FULL ALTERNATIVE X
 VEH CLASS(ES): PC LDT1 LDT2 MDV1 MDV2 MDV3 X MDV4 MDV5
 SINGLE CERT STD FOR MULTI-CLASS ENGINE FAMILY: NA
 FUEL TYPE(S): DEDICATED X GASOLINE X ; EMISS TEST FUEL(S): INDO PHASE 2 X
 SERVICE ACCUM: STD AMA MFR ADP X ; NMOG TEST PROC: NA EQUIV
 R/L TEST PROC: NA PT SOURCE ; HYBRID TYPE: NA APU CYCLE: NA
 ENGINE CONFIGURATION: I4 V6 V8 X DISPLACEMENT: 5.0 LITERS/ 305 CU. IN.
 VALVES/CYLINDER: 2 X 4 RATED HP: 200 @ 4400 RPM
 ENGINE LOCATION: FRONT X DRIVE: FWD RWD X 4WD-FT 4WD-PT
 EXHAUST EMISSION CONTROL SYSTEM: LEGR, TWC, 2HO2S-HO2S(2), SFI, OBD II
 RLHP/DPA VALUES: SECTION 08.13.02.00

| ENG CODE (LOC) (C) | VEH MODELS (SEE PAGE 1) | TRANS. (M5,A4 ETC.) | EQUIV. TEST WEIGHT | IGNITION (ECM/PCM) PART NO./CALIB | EGR SYSTEM PART NO. | CATALYTIC CONVERTER PART NO. |
|-----------------------------|----------------------------|---------------------------|--------------------------|---|---------------------------|------------------------------------|
| 3. | G11405 | A4 | 6000 | 16177415/ | 17096172, | 25163811, |
| 53M, | G11406 | | 6000 | 16235505PH-OPER | 17096309 | MS 9571 |
| 54, | | | 6500 | 16232354-ENG | | |
| 54M | G21405 | | | 16227573-TRANS | | |
| | G21705 | | | | | |
| 53A, | | | | 16237015PJ-OPER | | |
| 53N, | | | | | | |
| 54A, | | | | | | |
| 54N | | | | | | |

| CARLINE NAME | CARLINE CODE |
|-------------------------------|--------------|
| G1500/2500 CHEVY EXPRESS | 55040 |
| G1500/2500 CHEVY VAN 2WD | 55050 |
| G1500/2500 SAVANA 2WD PASS. | 80030 |
| G1500/2500 SAVANA 2WD (CARGO) | 80040 |

ISSUED: ML-TR060

REVISED: ML-TR073, ML-TP171

17-TGM5.0JPG1EK-2.1

17-50JPG

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

FR: GENERAL MOTORS CORP. ENGINE FAMILY: TGM5.0JPG1EK EVAP. FAMILY: TGM1098AYMBA
 ALL ENGINE CODES IN ENGINE FAMILY: CA X 49S X 50S AB965
 EXH STD: CA Tier-1 X TLEV LEV ULEV ZEV ; U.S. EPA Tier-1 NA
 EVAP STD: 50K X USEFUL LIFE WITH R/L ; IN-USE EXH STD: FULL ALTERNATIVE X
 VEH CLASS(ES): PC LDT1 LDT2 MDV1 MDV2 MDV3 X MDV4 MDV5
 SINGLE CERT STD FOR MULTI-CLASS ENGINE FAMILY: NA
 FUEL TYPE(S): DEDICATED X GASOLINE X ; EMISS TEST FUEL(S): INDO PHASE 2 X
 SERVICE ACCUM: STD AMA MFR ADP X ; NMOG TEST PROC: NA EQUIV
 R/L TEST PROC: NA PT SOURCE ; HYBRID TYPE: NA APU CYCLE: NA
 ENGINE CONFIGURATION: I4 V6 V8 X DISPLACEMENT: 5.0 LITERS/ 305 CU. IN.
 VALVES/CYLINDER: 2 X 4 RATED HP: 220 @ 4600 RPM
 ENGINE LOCATION: FRONT X DRIVE: FWD RWD X 4WD-FT 4WD-PT X
 EXHAUST EMISSION CONTROL SYSTEM: LEGR, TWC, 2HO2S-HO2S(2), SFI, OBD II
 RLHP/DPA VALUES: SECTION 08.13.02.00

| ENG CODE (LOC) (C) | VEH MODELS (SEE PAGE 1) | TRANS. (M5, A4 ETC.) | EQUIV. TEST WEIGHT | IGNITION (ECM/PCM) PART NO./CALIB | EGR SYSTEM PART NO. | CATALYTIC CONVERTER PART NO. |
|-----------------------------|---|----------------------------|--------------------------|---|---------------------------|------------------------------------|
| 51C, 52 | K10953+E63 CC20753+E63 K20903+E63 | A4 | 6000 | 16177415/ 16227527-ENG 16227573, 16227572-TRANS 16237015PJ-OPER | 17096188, 17096309 | 25163811, 25163841: MS-9571 |
| 81A, 82A | | | | 16177415/ 16232348-ENG 16227573, 16227572-TRANS 16237015PJ-OPER | | |

| CARLINE NAME | CARLINE CODE |
|------------------|--------------|
| C2500 PICKUP 2WD | 55020 |
| K1500 PICKUP 4WD | 55030 |
| K2500 PICKUP 4WD | 55035 |
| C2500 SIERRA 2WD | 80015 |
| K1500 SIERRA 4WD | 80020 |
| K2500 SIERRA 4WD | 80025 |

ISSUED: ML-TR073

REVISED:

17-TGM5.0JPG1EK-2.2